

**Patent** [19]

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[54] DISINFECTION WASTE GAS TREATMENT METHOD AND APPARATUS

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[51] Int. Cl.⁷ B01D05386 ; B01J02106; B01J02350; B01J02372; B01J02906; B01J029068; B01J03502**[57] ABSTRACT**

PROBLEM TO BE SOLVED: To provide a method and apparatus for decomposing and detoxifying waste gas generated after the disinfection treatment of a medical instrument easily and certainly in low cost.

SOLUTION: Formaldehyde or glutaraldehyde gas generated after a medical instrument is disinfected by a disinfectant such as formaldehyde or glutaraldehyde in a disinfection treatment chamber 12 is passed through a photocatalyst type filter 20 in a decomposition treatment chamber 14 and decomposed into carbon dioxide (CO₂) and water (H₂O) by anatase type titanium oxide particles supported on the photocatalyst type filter 20 to be detoxified before discharged. If an Ag catalyst is supported on anatase type titanium oxide particles, the sterilization treatment of bacteria contained in the gas is also performed.
